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Abstract

Process and device for the parallel preparation of at least 4n oligonucleotides

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In a process and a device for the parallel preparation of at least 4n oligonucleotides, at least four inserts each with n reaction vessels are first arranged on a plate (16), each reaction vessel containing a nucleotide initiator base bound to an inert carrier. Particular operations are then 10 carried out in parallel with one another at four stations (28, 30, 32, 34), and in particular a deblocking operation simultaneously in all n reaction vessels of the insert at the first station (28), a first washing operation simultaneously in all n reaction vessels of the insert at 15 the second station (30), a coupling operation in all n reaction vessels of the insert at the third station (32), and, simultaneously in all n reaction vessels of the insert at the fourth station (34), a second washing operation followed by a capping operation followed by a third washing 20 operation followed by an oxidation operation followed by a fourth washing operation. The plate (16) with the inserts is rotated station by station, the abovementioned operations being carried out, until the desired oligonucleotides have been formed by coupling individual nucleotides to one another.

(Fig. 1)